

SubstituteSequenceListing_05-06-2010
SEQUENCE LISTING

<110> CHOE, Mu-Hyeon
CHOI, Seong-Hyeok
LEE, Yong-Chan
KWON, Hye-Won
WON, Jae-Seon
YU, Mi-Hyun
SONG, Jeong-Hwa
KIM, Yong-Jae

<120> THE DIMER OF CHIMERIC RECOMBINANT BINDING DOMAIN-FUNCTIONAL GROUP
FUSION FORMED VIA DISULFIDE-BOND-BRIDGE AND THE PROCESSES FOR
PRODUCING THE SAME

<130> 428.1060

<140> US 10/562,627
<141> 2005-12-22

<150> PCT/KR2004/001595
<151> 2004-06-30

<150> KR 10-2003-0043599
<151> 2003-06-30

<160> 59

<170> PatentIn version 3.5

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<212> DNA
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<220>
<223> pMC74 plasmid coding sequence

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<212> DNA

<213> Artificial Sequence

<220>

<223> pMH21 plasmid coding sequence

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<210> 3
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 <212> DNA
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<220>
 <223> pCE2 plasmid coding sequence

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1749

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<211> 672

<212> DNA

<213> Artificial Sequence

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cgacaaaatg gcgtcctgaa cagttggact gatcaggaca gcaaagacag cacctacagc	540
atgagcagca ccctcacgtt gaccaaggac gagtatgaac gacataacag ctatacctgt	600
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ggtaaagctt aa	672

<210> 5

<211> 2454

<212> DNA

<213> Artificial Sequence

<220>

<223> pLSC52 plasmid coding sequence

<400> 5

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<210> 6
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> pKL4 plasmid coding sequence

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<211> 4871
<212> DNA
<213> Artificial Sequence

<220>
<223> pMC74 plasmid full sequence

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<210> 8
<211> 4886
<212> DNA
<213> Artificial Sequence

<220>
<223> pMH21 plasmid full sequence

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<212> DNA

<213> Artificial Sequence

<220>

<223> pCE2 plasmid full sequence

<400> 9

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 <211> 3703
 <212> DNA
 <213> Artificial Sequence

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<220>

<223> pMC75 plasmid full sequence

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<210> 11

<211> 5576

<212> DNA

<213> Artificial Sequence

<220>

<223> pLSC52 plasmid full sequence

<400> 11

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<211> 4263

<212> DNA

<213> Artificial Sequence

<220>

<223> pKL4 plasmid full sequence

<400> 12

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taccgccttt gagtgagctg ataccgctcg ccgcagccga acgaccgagc gcagcgagtc	3900
agtgagcgag gaagcggaag agcgctgat gcggtatttt ctcttacgc atctgtgcgg	3960
tatttcacac cgcataatat gtgcactctc agtacaatct gctctgatgc cgcatagtta	4020
agccagtata cactccgcta tcgctacgtg actgcaagga gatggcgccc aacagtcccc	4080
cggccacggg gcctgccacc ataccacgc cgaaacaagc gctcatgagc ccgaagtggc	4140

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gagcccgatc ttcccatcg gtgatgtcgg cgatataggc gccagcaacc gcacctgtgg      4200
cgccggtgat gccggccacg atgcgtccgg cgtagaggat cttgagatct cgatccgcga      4260
aat                                                                    4263

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<210> 13
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<223> Extension peptide 1

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<223> X is S or A

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<220>
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<220>
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<220>
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<400> 13

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Xaa Lys Pro Ser Ile Xaa Thr Xaa Ala Ser Gly Gly Gly Gly Ser Gly
1          5          10          15

```

```

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20          25          30

```

```

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35          40          45

```

```

Gly Ser Gly Gly Pro Glu
50

```

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<210> 14
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<220>
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<400> 14

Leu Ala Asp Phe Ala
1 5

<210> 15
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<223> X is K or Q

<220>
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<400> 15

Xaa Lys Pro Cys Ile Xaa Thr Xaa Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Pro Glu

<210> 16
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Extension peptide 3

<400> 16

Cys Lys Pro Ser Ile Ser Thr Lys Ala Ser Gly Gly Pro Glu
Page 26

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1 5 10

<210> 17
 <211> 5
 <212> PRT
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 <220>
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 <400> 17

Gly Gly Gly Gly Ser
 1 5

<210> 18
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Extension peptide 5

 <400> 18

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10

<210> 19
 <211> 15
 <212> PRT
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 <220>
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 <400> 19

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10 15

<210> 20
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<220>
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 <222> (4)..(4)
 <223> X is S or A

<220>
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 <222> (7)..(11)

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Ile	Xaa	Thr	Xaa	Ala	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Pro	Glu
1				5					10					15

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<220>
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<400> 21

Gly	Ala	Ser	Gln	Glu	Asn	Asp
1				5		

<210> 22
 <211> 10
 <212> PRT
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<220>
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<400> 22

Ala	Lys	Pro	Cys	Ile	Ala	Thr	Gln	Ala	Ser
1				5					10

<210> 23
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<220>
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<400> 23

taatacgact cactataggg aga

23

<210> 24
 <211> 36
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<220>
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 <400> 24
 agatccgccca ccaccagaag cttttgtact tatgct 36

 <210> 25
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 <212> DNA
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 <400> 25
 ccagatccgc caccaccact tccccctccc ccggaagctt ttgtacttat gctaggctta 60
 ct 62

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 <211> 38
 <212> DNA
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 tgctggtggc ggatctggag gtcccgaggg cggcaagc 38

 <210> 27
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 tggtggtggc ggatctggag gtggcggaag cggaggtccc gagggcggca gc 52

 <210> 28
 <211> 33
 <212> DNA
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 <220>
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 gccgcgggtg ctgaagctga cgtcgccgcc gtc 33

 <210> 29

SubstituteSequenceListing_05-06-2010

<211> 45
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<400> 29
 gggaattcat taagcttgtag tagctatgca aggcttagca ccaca

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<210> 30
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<400> 30

Lys Ala Ser Gly Gly Pro Glu
 1 5

<210> 31
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<400> 31

Ser Lys Pro Cys Gly
 1 5

<210> 32
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Ser Lys Pro Cys Lys Ala Ser Pro Glu
 1 5

<210> 33
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<223> Extension peptide 13

<400> 33

Ala Lys Pro Cys Ile Ala Thr Gln
1 5

<210> 34

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<223> Extension peptide 14

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Ser Lys Pro Cys Ile Ser Thr Lys
1 5

<210> 35

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<212> PRT

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<223> Extension peptide 15

<400> 35

Gly Gly Gly Gly Cys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

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<211> 29

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<223> Extension peptide 16

<400> 36

Ser Lys Pro Ser Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Cys Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Pro Glu
20 25

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<211> 43

<212> DNA

<213> Artificial Sequence

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<220>
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 <400> 38
 ttggtttgaa gatattggtg agtaggaatt cggcc 35

 <210> 39
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 <400> 39
 ggcccccgag gtgacagggg gaatg 25

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 gaagatattg gtgagcatca ccatcaccat cactaggaat tcggcc 46

 <210> 41
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 ggcccatatg catcaccatc accatcacga tgtgaagctg gtggagtct 49

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SubstituteSequenceListing_05-06-2010

<220>

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<400> 42

Ser Lys Pro Ser Ile Ser Thr Lys Ala Ser Gly Gly Pro Glu
1 5 10

<210> 43

<211> 44

<212> PRT

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<223> Extension peptide 18

<400> 43

Ser Lys Pro Ser Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Cys Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Pro Glu
35 40

<210> 44

<211> 54

<212> PRT

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<223> Extension peptide 19

<400> 44

Ser Lys Pro Ser Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Cys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser Gly Gly Pro Glu
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<210> 45

SubstituteSequenceListing_05-06-2010

<211> 64
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<400> 45

Ser Lys Pro Ser Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Cys Gly Gly Gly
 35 40 45

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Pro Glu
 50 55 60

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<400> 46

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Pro Glu
 1 5 10

<210> 47
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<400> 47

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

Gly Pro Glu

<210> 48
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<212> PRT

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<400> 48

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Pro Glu
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<210> 49

<211> 29

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<223> Extension peptide 24

<400> 49

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Pro Glu
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<223> Extension peptide 25

<400> 50

Ala Lys Pro Cys Ile Ala Thr Gln Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Pro Glu
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<210> 51

<211> 34

<212> PRT

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<223> Extension peptide 26

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<400> 51

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Pro Glu

<210> 52

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Extension peptide 27

<400> 52

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Pro Glu
35

<210> 53

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Extension peptide 28

<400> 53

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Pro Glu
35 40

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<210> 54
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<220>
 <223> Extension peptide 29

<400> 54

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Pro
 35 40 45

Glu

<210> 55
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 <212> PRT
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<220>
 <223> Extension peptide 30

<400> 55

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
 35 40 45

Gly Ser Gly Gly Pro Glu
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<210> 56
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SubstituteSequenceListing_05-06-2010

<400> 56

Arg Glu Asp Leu Lys
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<210> 57

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<223> pKL2

<400> 57

Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Pro Glu
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<210> 58

<211> 24

<212> PRT

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<223> pKL3

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Ser Lys Pro Cys Ile Ser Thr Lys Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Pro Glu
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<210> 59

<211> 24

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<220>

<223> pKL4

<400> 59

Ala Lys Pro Cys Ile Ala Thr Gln Ala Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Pro Glu
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